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(54) Method for repairing the coated surface of a vehicle

(57) Method for repairing a coated surface of a vehicle, using an ultraviolet curing resin having excellent quick-drying property, and giving a good finish in a short working time and composition therefore.

The method comprises the following steps:

- a) filling a putty raw material comprising an ultraviolet polymerizing resin and UV curing the putty material
- b) uniformly spray coating on at least the putty coated surface a primer raw material comprising an ultraviolet polymerizing resin and UV curing the primer
- c) applying a top coat on the primer coated surface.

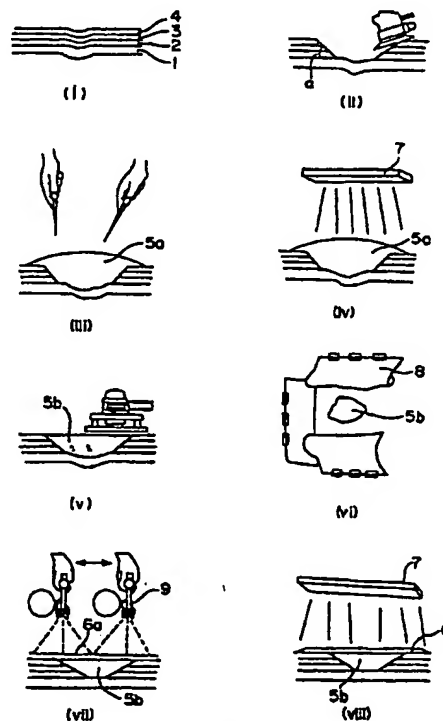


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 99 11 6834

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	US 5 789 459 A (YOSHII KOJI ET AL) 4 August 1998 (1998-08-04) * column 2, line 44 - column 3, line 18 * * column 4, line 39-54 * * column 6, line 40-49 *	9,10	805D5/00 C09D4/00 805D3/06
Y	EP 0 799 649 A (DAIMLER BENZ AG) 8 October 1997 (1997-10-08) * column 3, line 28 - column 9, line 34 *	1,3-5	
Y	US 4 960 611 A (FUJISAWA ATSUHISA ET AL) 2 October 1990 (1990-10-02) * column 8, line 3-66; figure 6 * * column 9, line 63 - column 10, line 4 *	1,3-5	
A	DE 196 46 956 C (MC MICRO COMPACT CAR AG ;EISENMANN KG MASCHBAU (DE); WORWAG LACK F) 20 May 1998 (1998-05-20) * claims 1,8,9; figures *	1	
A	EP 0 333 934 A (MAEDA MACHINERY SALES) 27 September 1989 (1989-09-27) * column 3, line 26-53; claim 1; figure 1 *	1	TECHNICAL FIELDS SEARCHED (Int.CI.7) 805D C09D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 January 2001	Examiner Stembrouck, I
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 11 6834

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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16-01-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5789459 A	04-08-1998	BR 9603961 A	07-10-1997
		CA 2186871 A,C	08-08-1996
		DE 69610669 D	23-11-2000
		EP 0754736 A	22-01-1997
		WO 9623842 A	08-08-1996
		US 5693390 A	02-12-1997
EP 0799649 A	08-10-1997	DE 19613915 C	21-08-1997
		ES 2147406 T	01-09-2000
		JP 10057888 A	03-03-1998
US 4960611 A	02-10-1990	JP 1835483 C	11-04-1994
		JP 2056278 A	26-02-1990
		JP 5045312 B	08-07-1993
		JP 1315375 A	20-12-1989
		JP 1984123 C	25-10-1995
		JP 6096140 B	30-11-1994
		CA 1312506 A	12-01-1993
		DE 3833225 A	13-04-1989
		GB 2210291 A,B	07-06-1989
		KR 9302047 B	22-03-1993
DE 19646956 C	20-05-1998	EP 0842710 A	20-05-1998
		JP 10156274 A	16-06-1998
		KR 249596 B	15-03-2000
		NO 975201 A	14-05-1998
		US 5997941 A	07-12-1999
EP 0333934 A	27-09-1989	DE 3878681 D	01-04-1993
		DE 3878681 T	09-06-1993
		ES 2039586 T	01-10-1993

EPO FORM P4489

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82